

FIG. 1A

1 CCGCAGAGATGGTTGAGCTCATGTTCCCGCTGTGTGCTCCTCCTTCTGCCCTTCTCTG
 1 M V E L M F P L L L L L L L P F L L
 61 TATATGGCTGCGCCCCAATCAGGAAATGCTGTCCAGTGGGTGTGTACATCAACTGTT
 18 Y M A A P Q I R K M L S S G V C T S T V
 121 CAGCTTCCTGGGAAAGTAGTGTGTGTCACAGGAGCTAATACAGGTATCGGGAAGGAGACA
 38 Q L P G K V V V T G A N T G I G K E T
 181 GCCAAGAGCTGGCTCAGAGAGAGCTCGAGTATATTAGCTTGCCGGGATGTGGAAGAAG
 58 A K E L A Q R G A R V Y L A C R D V E K
 241 GGGGAATTGGTGGCCAAAGAGATCCAGACCAGACAGGGAACCAAGAGGTGTGTGGTGGG
 78 G E L V A K E I Q T T T G N Q Q V L V R
 301 AAACCTGGACCTGTCTGATACTAAGTCTATTTCGAGCTTGGGCTAAGGCTTCTTAGCTGAG
 98 K L D L S D T K S I R A W A K G F L A E
 361 GAAAGCACCTCCACGTTTGGATCAACAATGCAGGAGTGATGTGTCCGTACTCGAAG
 118 E K H L H V W I N N A G V M C P Y S K
 421 ACAGCAGATGGCTTTGAGATGCACATAGGAGTCAACCACCTGGGTCACTTCCCTCCTAACC
 138 T A D G F E M H I G V N H L G H F L L T
 481 CATCTGCTGCTAGAGAAACTAAAGGAATCAGCCCCATCAAGGATAGTAAATGTGTCTTCC
 158 H L L L E K L K E S A P S R I V N V S S
 541 CTCGCACATCACCTGGGAAGGATCCACTTCCATAACCTGCAGGGGAGAAATCTACAAT
 178 L A H H L G R I H F H N L Q G E K F Y N
 601 GCAGGCCTGGCCTACTGTCACAGCAAGCTAGCCAAACATCCTTCCACCCAGGAAGTGGCC
 198 A G L A Y C H S K L A N I L F T Q E L A
 661 CGGAGACTAAAGGCTCTGGCGTTACGACGTATTCTGTACACCCCTGGCACAGTCCCAATCT
 218 R R L K G S G V T T Y S V H P G T V Q S

FIG. 1B

721	GA	AC	TG	GT	TC	GC	CA	CT	CA	T	C	T	T	C	A	T	G	A	T	G	G	T	T	T	C	T	C	T	T	T	C	A	T	C																
238	E	L	V	R	H	S	S	F	M	R	W	M	W	L	F	S	F	I																																
781	A	A	G	A	C	T	C	C	T	C	A	G	C	G	C	C	C	A	G	C	T	G	C	C	T	T	A	A	C	A	G	A	G	T	C	T	T	G	A	G										
258	K	T	P	Q	Q	G	A	Q	T	R	L	H	C	A	L	T	E	G	L	E																														
841	A	T	T	C	T	A	A	G	T	G	G	A	A	T	C	A	T	T	T	C	A	G	T	G	T	C	A	T	G	T	C	A	T	G	T	C	T	G	C	C	C	A	A	G	C	T	C	G	T	
278	I	L	S	G	N	H	F	S	D	C	H	V	A	W	V	S	A	Q	A	R																														
901	A	A	T	G	A	C	T	A	T	A	G	A	C	T	A	T	G	G	A	C	G	T	C	A	T	T	G	T	G	A	C	C	T	T	G	T	G	G	C	C	T	C	C	C	A	A	T	A	G	
298	N	E	T	I	A	R	R	L	W	D	V	I	V	T	C	W	A	S	Q	*																														
961	A	C	T	A	A	C	A	G	G	C	A	G	T	G	C	C	A	C	C	C	A	A	G	A	A	G	A	C	T	G	C	A	G	C	A	C	T	A	C	A	G	T	A	C	T	T	C	T		
1021	T	G	T	C	A	A	A	A	T	G	A	T	T	C	T	C	T	T	C	A	A	G	G	T	T	T	T	C	A	A	A	A	C	C	T	T	T	A	G	C	A	C	A	A	A	A	C	C	T	T
1081	C	C	A	G	C	C																																												

Nucleotide and amino acid sequences of prostatic

specific reductase (PSR).

FIG. 2A

1	M	-	-	-	-	-	-	-	-	A	A	P	Q	I	R	K	M	
1	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	M	L	L	L	A	A	A	F	L	V	A	F	V	L	L	L	Y	M
22	P	G	K	V	V	V	T	G	A	N	T	G	I	G	K	E	T	
4	T	G	R	R	A	V	V	T	G	G	A	S	G	L	G	A	E	T
31	P	G	A	H	V	V	V	T	G	G	S	S	G	I	G	K	C	I
52	L	A	C	R	D	V	E	K	G	E	L	V	A	K	E	I	Q	-
34	V	A	T	R	R	P	L	S	A	E	P	L	V	Q	E	L	A	-
61	L	V	A	R	N	E	D	K	L	L	Q	A	K	K	E	I	E	M
80	K	L	D	L	S	D	T	-	K	S	I	R	A	W	A	K	G	F
62	A	L	D	L	S	D	P	-	A	S	V	E	S	F	A	R	A	W
91	S	V	D	V	S	Q	D	Y	N	Q	V	E	N	V	I	K	Q	A
109	N	A	G	V	M	M	C	P	-	Y	S	K	-	T	A	D	G	F
88	N	A	G	I	M	A	L	P	-	T	R	T	L	A	P	N	G	W
121	C	A	G	M	A	V	S	G	K	F	E	D	L	E	V	S	T	F
137	L	L	T	H	L	L	L	E	K	L	K	E	S	A	P	S	R	I
117	A	L	A	T	G	L	H	A	A	L	R	D	A	G	S	A	R	I
151	Y	P	S	R	A	V	I	T	T	M	K	E	R	R	V	G	R	I

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FIG. 2B

L	S	S	G	V	C	T	S	T	V	Q	L	PSR
-	-	-	-	-	-	-	-	-	-	D	L	Oxidoreductase
V	S	P	L	I	S	P	K	P	L	A	L	fvt1

A	K	E	L	A	Q	R	G	A	R	V	Y	PSR
V	R	A	L	A	A	A	G	A	E	V	T	Oxidoreductase
A	I	E	C	Y	K	Q	G	A	F	I	T	fvt1

-	T	T	T	G	N	Q	Q	V	L	V	R	PSR
-	A	A	G	G	A	G	R	V	T	A	E	Oxidoreductase
H	S	I	N	D	K	Q	V	V	L	C	I	fvt1

L	A	E	E	K	H	L	H	V	W	I	N	PSR
R	G	-	-	-	P	L	D	I	L	V	A	Oxidoreductase
Q	E	K	L	G	P	V	D	M	L	V	N	fvt1

E	M	H	I	G	V	N	H	L	G	H	F	PSR
E	M	Q	L	A	T	N	Y	L	G	H	F	Oxidoreductase
E	R	L	M	S	I	N	Y	L	G	S	V	fvt1

V	N	V	S	S	L	A	H	H	L	G	R	PSR
V	V	V	S	S	G	A	H	L	D	A	P	Oxidoreductase
V	F	V	S	S	Q	A	G	Q	L	G	L	fvt1

FIG. 2C

167	I	H	F	-	-	-	-	-	-	-	-	-	-	-	-		
147	F	D	F	-	-	-	-	-	-	-	-	-	-	-	-		
181	F	G	F	T	A	Y	S	A	S	K	F	A	I	R	G	L	A
182	L	-	-	A	Y	C	H	S	K	L	A	N	I	L	F	T	Q
163	V	-	-	A	Y	G	Q	S	K	A	A	D	V	L	F	T	V
211	I	T	V	A	Y	P	P	D	T	D	T	P	G	F	A	E	E
208	T	T	Y	S	V	H	P	G	T	V	Q	S	E	L	V	R	H
188	T	V	N	A	L	N	P	G	Y	I	L	T	R	L	Q	R	H
241	T	T	S	V	C	K	P	E	Q	V	A	K	Q	I	V	K	D
236	S	F	-	-	-	-	-	-	-	-	-	-	-	-	F	I	K
214	G	V	M	D	D	Q	G	N	V	-	K	P	L	P	Y	Y	K
265	S	S	L	G	S	D	G	Y	M	L	S	A	L	T	C	G	M
254	L	T	E	G	L	E	I	L	S	G	N	H	F	S	D	C	H
243	A	S	P	L	L	K	G	V	T	G	R	Y	F	E	D	N	Q
295	V	T	M	G	L	F	R	T	I	A	L	F	Y	L	G	S	F
274	-	V	S	A	Q	A	R	N	E	T	I	A	R	R	L	W	D
273	G	V	A	A	H	A	L	D	P	E	A	A	D	R	L	W	E
325	S	E	N	A	D	-	-	-	-	-	-	-	-	-	-	-	-

FIG. 2D

H	N	L	Q	-	G	E	K	F	Y	N	A	G	PSR
E	D	A	H	F	A	R	R	P	Y	D	P	W	Oxidoreductase
E	A	L	Q	M	E	V	K	P	Y	N	V	Y	fvt1

E	L	A	R	R	L	K	G	S	G	V	-	-	PSR
G	-	A	R	R	W	A	A	D	G	I	-	-	Oxidoreductase
N	R	T	K	P	L	E	T	R	L	I	S	E	fvt1

-	-	S	S	F	M	R	W	M	W	W	L	F	PSR
V	D	D	E	T	M	R	-	-	-	-	A	F	Oxidoreductase
A	I	Q	G	N	F	N	-	-	-	-	-	-	fvt1

T	P	Q	Q	G	A	Q	T	R	L	H	C	A	PSR
T	P	E	Q	G	A	A	T	S	V	L	L	A	Oxidoreductase
A	P	V	T	S	I	T	E	G	L	Q	Q	V	fvt1

V	A	W	-	-	-	-	-	-	-	-	-	-	PSR
E	A	R	T	V	Q	G	Q	E	D	Q	P	G	Oxidoreductase
D	S	I	V	R	R	C	M	M	Q	R	E	K	fvt1

V	I	V	T	C	W	A	S	Q					PSR
Y	G	T	D	A	L	-	R	A	A				Oxidoreductase
-	-	-	-	-	-	-	K	T	A				fvt1